

## SEVIER LAKE BASIN

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## 10174500 SEVIER RIVER AT HATCH, UT

LOCATION.--Lat 37°39'04", long 112°25'46", in SW<sup>1/4</sup>SW<sup>1/4</sup>NW<sup>1/4</sup> sec. 28, T. 36 S., R. 5 W., Garfield County, Hydrologic Unit 16030001, on right bank 15 ft upstream of county road bridge, 0.2 mi east of Hatch, and 2.8 mi downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1911 to September 1928, June 1939 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Hatchtown" 1911 and as "near Hatch" 1912.

REVISED RECORDS.--WSP 960: 1939-40. WSP 1284: 1916. WSP 1564: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage installed November 9, 1995. Elevation of gage is 6,870 ft above NGVD of 1929, from river-profile map. Prior to August 23, 1914 at sites about 2 mi upstream. August 23, 1914 to August 22, 1978 at various sites within 300 feet of current site, different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Some diversions for irrigation upstream of station. No regulation since Hatchtown Dam failed in 1914.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 ft<sup>3</sup>/s, May 26, 1922, gage height, 5.25 ft, datum then in use; minimum daily, 10 ft<sup>3</sup>/s, for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural daily discharge, 21 ft<sup>3</sup>/s, Sep 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Aug 20	1715	*377	*2.06				

Minimum daily discharge, 33 ft<sup>3</sup>/s, Oct 14.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	38	37	e43	e33	38	45	107	89	48	43	38
2	35	37	37	e45	e34	38	50	110	88	47	44	38
3	37	38	38	e44	35	38	55	125	87	45	48	37
4	36	38	39	e41	35	38	51	157	81	46	44	39
5	36	39	39	e39	e38	38	49	229	76	46	43	39
6	37	39	39	e42	e36	38	49	283	75	45	43	39
7	39	39	39	e46	37	41	50	306	72	44	43	38
8	38	38	40	e46	e36	42	51	306	71	43	43	38
9	37	38	39	e46	e35	44	53	317	71	43	43	39
10	37	39	39	e47	e35	45	51	310	71	42	44	50
11	36	39	38	e46	e34	45	52	299	70	42	43	57
12	36	39	38	e46	e34	45	51	265	69	41	44	49
13	36	40	38	e44	e34	46	50	235	67	41	44	41
14	33	39	38	e42	e36	47	52	209	64	42	42	40
15	35	39	38	e40	e37	47	53	200	61	49	42	39
16	35	39	e37	e36	37	46	54	192	61	51	44	38
17	35	39	e36	35	37	46	60	185	58	54	47	38
18	35	38	e36	e35	38	45	71	174	57	48	46	38
19	38	38	e36	35	38	46	71	175	55	46	57	45
20	38	38	36	35	38	48	66	167	54	48	78	40
21	37	38	37	34	39	46	61	162	53	51	54	39
22	37	e37	36	e34	39	45	59	156	54	44	47	38
23	38	e36	36	e33	39	45	60	149	53	45	44	39
24	37	e37	36	e34	39	47	58	141	52	45	44	39
25	37	e38	38	34	39	50	53	131	52	44	43	39
26	38	38	44	e33	41	50	55	122	52	44	42	39
27	38	37	40	e33	39	47	63	112	51	55	42	39
28	38	38	e37	e33	39	45	74	107	51	56	40	38
29	37	38	e38	34	38	43	87	107	49	46	40	46
30	36	38	e39	34	---	42	101	106	49	44	41	44
31	37	---	e42	34	---	43	---	97	---	43	41	---
TOTAL	1,134	1,146	1,180	1,203	1,069	1,364	1,755	5,741	1,913	1,428	1,403	1,220
MEAN	36.6	38.2	38.1	38.8	36.9	44.0	58.5	185	63.8	46.1	45.3	40.7
MAX	39	40	44	47	41	50	101	317	89	56	78	57
MIN	33	36	36	33	33	38	45	97	49	41	40	37
AC-FT	2,250	2,270	2,340	2,390	2,120	2,710	3,480	11,390	3,790	2,830	2,780	2,420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-1928, 1940-2004, BY WATER YEAR (WY)

MEAN	75.1	73.2	67.2	61.8	65.0	74.5	125	330	256	117	88.3	77.9
MAX	246	149	150	128	130	159	465	1,012	1,071	430	228	167
(WY)	(1917)	(1917)	(1922)	(1923)	(1922)	(1916)	(1916)	(1922)	(1983)	(1983)	(1983)	(1922)
MIN	36.6	36.9	36.2	37.0	36.6	38.5	39.7	40.0	33.3	32.5	30.4	28.3
(WY)	(2004)	(1978)	(1957)	(2003)	(1978)	(1957)	(2003)	(2002)	(2002)	(2002)	(1977)	(1977)

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10174500 SEVIER RIVER AT HATCH, UT—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1915-28, 1940-2004
ANNUAL TOTAL	18,147	20,556	
ANNUAL MEAN	49.7	56.2	
HIGHEST ANNUAL MEAN			118
LOWEST ANNUAL MEAN			313
HIGHEST DAILY MEAN	254	May 26	42.6
LOWEST DAILY MEAN	33	Oct 14	1922
ANNUAL SEVEN-DAY MINIMUM	35	Oct 12	1977
ANNUAL RUNOFF (AC-FT)	35,990	40,770	1,430 May 26, 1922
10 PERCENT EXCEEDS	56	83	0.00 Jul 31, 1927
50 PERCENT EXCEEDS	39	42	23 Aug 30, 1977
90 PERCENT EXCEEDS	37	36	225
			74
			44

e Estimated

